



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FAST AND SCALABLE APPROXIMATION METHODS FOR FINDING MINIMUM COST FLOWS WITH SHARED RECOVERY STRATEGIES, AND SYSTEM USING SAME**, the specification of which was filed in the United States Patent and Trademark Office on **January 17, 2002** and assigned Serial No. 10/053,079. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional application(s) listed below:

USSN 60/262,410 Filed January 18, 2001

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


Fleischer 1-3-3-5

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Martin I. Finston	(Reg. No. 31613)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Stephen M. Gurey	(Reg. No. 27336)
Matthew J. Hodulik	(Reg. No. 36164)
Eugene S. Indyk	(Reg. No. 30711)
Michael B. Johannesen	(Reg. No. 35557)
Irena Lager	(Reg. No. 39260)
John B. MacIntyre	(Reg. No. 41170)
Christopher N. Malvone	(Reg. No. 34866)
John F. McCabe	(Reg. No. 42854)
Gregory J. Murgia	(Reg. No. 41209)
Neil R. Ormos	(Reg. No. 35309)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ozer M. N. Teitelbaum	(Reg. No. 36698)
Jeffrey M. Weinick	(Reg. No. 36304)

I hereby appoint the attorneys on ATTACHMENT A as associate attorneys in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorneys and such associate attorneys are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: Lisa Karen Fleischer

Inventor's signature  Date April 18, 2002

Residence: Pittsburgh, Allegheny County, Pennsylvania

Citizenship: United States of America

Post Office Address: 1634 Denniston Ave.
Pittsburgh, PA 15217

Full name of 2nd joint inventor: Iraj Saniee

Inventor's signature _____ Date _____

Residence: New Providence, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 27 Colonial Way
New Providence, NJ 07974

Full name of 3rd joint inventor: Frederick Bruce Shepherd

Inventor's signature _____ Date _____

Residence: Summit, Union County, New Jersey

Citizenship: Canada

Post Office Address: 183 Mountain Ave.
Summit, NJ 07901

Fleischer 1-3-3-5

Full name of 4th joint inventor: Aravind Srinivasan

Inventor's signature _____ Date _____

Residence: Highland Park, Middlesex County, New Jersey

Citizenship: India

Post Office Address: 68-A Cedar Lane
Highland Park, NJ 08904

ATTACHMENT A

Attorney Names:	<u>Joseph B. Ryan</u>	Reg. Nos.:	<u>37,922</u>
	<u>Kevin M. Mason</u>		<u>36,597</u>
	<u>William E. Lewis</u>		<u>39,274</u>
	<u>Robert J. Mauri</u>		<u>41,180</u>
	<u>Wayne L. Ellenbogen</u>		<u>43,602</u>
	<u>James M. Loeffler</u>		<u>37,873</u>
	<u>James F. Harrington</u>		<u>44,741</u>

Telephone calls should be made to Robert J. Mauri at:

Phone No.: (203) 255-6560

Fax No.: (203) 255-6570

All written communications are to be addressed to:

Ryan, Mason & Lewis, LLP
1300 Post Road, Suite 205
Fairfield, CT 06430



#3
Fleischer 1-3-3-5

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FAST AND SCALABLE APPROXIMATION METHODS FOR FINDING MINIMUM COST FLOWS WITH SHARED RECOVERY STRATEGIES, AND SYSTEM USING SAME**, the specification of which was filed in the United States Patent and Trademark Office on **January 17, 2002** and assigned Serial No. 10/053,079. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional application(s) listed below:

USSN 60/262,410 Filed January 18, 2001

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Martin I. Finston	(Reg. No. 31613)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Stephen M. Gurey	(Reg. No. 27336)
Matthew J. Hodulik	(Reg. No. 36164)
Eugene S. Indyk	(Reg. No. 30711)
Michael B. Johannesen	(Reg. No. 35557)
Irena Lager	(Reg. No. 39260)
John B. MacIntyre	(Reg. No. 41170)
Christopher N. Malvone	(Reg. No. 34866)
John F. McCabe	(Reg. No. 42854)
Gregory J. Murgia	(Reg. No. 41209)
Neil R. Ormos	(Reg. No. 35309)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ozer M. N. Teitelbaum	(Reg. No. 36698)
Jeffrey M. Weinick	(Reg. No. 36304)

I hereby appoint the attorneys on ATTACHMENT A as associate attorneys in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorneys and such associate attorneys are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: Lisa Karen Fleischer

Inventor's signature _____ Date _____

Residence: Pittsburgh, Allegheny County, Pennsylvania

Citizenship: United States of America

Post Office Address: 1634 Denniston Ave.
Pittsburgh, PA 15217

Full name of 2nd joint inventor: Iraj Saniee

Inventor's signature _____ Date _____

Residence: New Providence, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 27 Colonial Way
New Providence, NJ 07974

Full name of 3rd joint inventor: Frederick Bruce Shepherd

Inventor's signature _____ Date _____

Residence: Summit, Union County, New Jersey

Citizenship: Canada

Post Office Address: 183 Mountain Ave.
Summit, NJ 07901

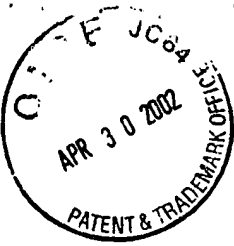
Full name of 4th joint inventor: Aravind Srinivasan

Inventor's signature P. Aravind Date 4/19/2002

Residence: Ellicott City, Howard County, Maryland

Citizenship: India

Post Office Address: 3718 Garand Road
Ellicott City, MD 21042



Fleischer 1-3-3-5

ATTACHMENT A

Attorney Names:	<u>Joseph B. Ryan</u>	Reg. Nos.:	<u>37,922</u>
	<u>Kevin M. Mason</u>		<u>36,597</u>
	<u>William E. Lewis</u>		<u>39,274</u>
	<u>Robert J. Mauri</u>		<u>41,180</u>
	<u>Wayne L. Ellenbogen</u>		<u>43,602</u>
	<u>James M. Loeffler</u>		<u>37,873</u>
	<u>James F. Harrington</u>		<u>44,741</u>

Telephone calls should be made to Robert J. Mauri at:

Phone No.: (203) 255-6560

Fax No.: (203) 255-6570

All written communications are to be addressed to:

Ryan, Mason & Lewis, LLP
1300 Post Road, Suite 205
Fairfield, CT 06430

Fleischer 1-3-3-5 H3

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FAST AND SCALABLE APPROXIMATION METHODS FOR FINDING MINIMUM COST FLOWS WITH SHARED RECOVERY STRATEGIES, AND SYSTEM USING SAME**, the specification of which was filed in the United States Patent and Trademark Office on January 17, 2002 and assigned Serial No. 10/053,079. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 119(e) of any United States provisional application(s) listed below:

USSN 60/262,410 Filed January 18, 2001

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Fleischer 1-3-3-5

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth M. Brown	(Reg. No. 37590)
Donald P. Dinella	(Reg. No. 39961)
Martin I. Finston	(Reg. No. 31613)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Jimmy Goo	(Reg. No. 36528)
Stephen M. Gurey	(Reg. No. 27336)
Matthew J. Hodulik	(Reg. No. 36164)
Eugene S. Indyk	(Reg. No. 30711)
Michael B. Johannesen	(Reg. No. 35557)
Irena Lager	(Reg. No. 39260)
John B. MacIntyre	(Reg. No. 41170)
Christopher N. Malvone	(Reg. No. 34866)
John F. McCabe	(Reg. No. 42854)
Gregory J. Murgia	(Reg. No. 41209)
Neil R. Ormos	(Reg. No. 35309)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ozer M. N. Teitelbaum	(Reg. No. 36698)
Jeffrey M. Weinick	(Reg. No. 36304)

Fleischer 1-3-3-5

I hereby appoint the attorneys on ATTACHMENT A as associate attorneys in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorneys and such associate attorneys are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: Lisa Karen Fleischer

Inventor's signature _____ Date _____

Residence: Pittsburgh, Allegheny County, Pennsylvania

Citizenship: United States of America

Post Office Address: 1634 Denniston Ave.
Pittsburgh, PA 15217

Full name of 2nd joint inventor: Iraj Saniee

Inventor's signature Iraj Saniee Date April 16, 2002

Residence: New Providence, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 27 Colonial Way
New Providence, NJ 07974

Full name of 3rd joint inventor: Frederick Bruce Shepherd

Inventor's signature Frederick B. Shepherd Date April 24, 2002

Residence: Summit, Union County, New Jersey

Citizenship: Canada

Post Office Address: 183 Mountain Ave.
Summit, NJ 07901

Fleischer 1-3-3-5

Full name of 4th joint inventor: Aravind Srinivasan

Inventor's signature _____ Date _____

Residence: Highland Park, Middlesex County, New Jersey

Citizenship: India

Post Office Address: 68-A Cedar Lane
Highland Park, NJ 08904

Fleischer 1-3-3-5

ATTACHMENT A

Attorney Names:	<u>Joseph B. Ryan</u>	Reg. Nos.:	<u>37,922</u>
	<u>Kevin M. Mason</u>		<u>36,597</u>
	<u>William E. Lewis</u>		<u>39,274</u>
	<u>Robert J. Mauri</u>		<u>41,180</u>
	<u>Wayne L. Ellenbogen</u>		<u>43,602</u>
	<u>James M. Loeffler</u>		<u>37,873</u>
	<u>James F. Harrington</u>		<u>44,741</u>

Telephone calls should be made to Robert J. Mauri at:

Phone No.: (203) 255-6560

Fax No.: (203) 255-6570

All written communications are to be addressed to:

Ryan, Mason & Lewis, LLP
1300 Post Road, Suite 205
Fairfield, CT 06430